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        RAW SEQUENCE LISTING                    DATE: 01/14/2002
        PATENT APPLICATION:  US/10/009,317      TIME: 12:01:09

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  3 <110> APPLICANT: The Regents of the University of California
  5 <120> TITLE OF INVENTION: Antimicrobial Theta Defensins and Methods of Using Same
  7 <130> FILE REFERENCE: P-UC 5042
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/009,317
C--> 10 <141> CURRENT FILING DATE: 2001-11-09
 12 <150> PRIOR APPLICATION NUMBER: PCT/US00/12842
 13 <151> PRIOR FILING DATE: 2000-05-19
 15 <150> PRIOR APPLICATION NUMBER: US 09/309,482
 16 <151> PRIOR FILING DATE: 1999-05-10
 18 <160> NUMBER OF SEQ ID NOS: 33
 20 <170> SOFTWARE: PatentIn Ver. 2.0
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 23 <211> LENGTH: 18
 24 <212> TYPE: PRT
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 58 <213> ORGANISM: Macaca mulatta
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 66 <211> LENGTH: 6
 67 <212> TYPE: PRT
 68 <213> ORGANISM: Macaca mulatta
 70 <400> SEQUENCE: 5
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 72   1               5
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86 <211> LENGTH: 8
87 <212> TYPE: PRT
88 <213> ORGANISM: Macaca mulatta
90 <400> SEQUENCE: 7
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92   1   5
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96 <211> LENGTH: 5
97 <212> TYPE: PRT
98 <213> ORGANISM: Macaca mulatta
100 <400> SEQUENCE: 8
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102   1   5
105 <210> SEQ ID NO: 9
106 <211> LENGTH: 18
107 <212> TYPE: PRT
108 <213> ORGANISM: Macaca mulatta
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112   1   5   10   15
114 Ile Cys
118 <210> SEQ ID NO: 10
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120 <212> TYPE: PRT
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123 <400> SEQUENCE: 10
124 Asn Lys Val Cys Tyr Arg Asn Gly Ile Pro Cys Gly Glu Ser Cys Val
125   1   5   10   15
127 Trp Ile Pro Cys Ile Ser Ala Ala Leu Gly Cys Ser Cys Lys
128   20   25   30
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132 <211> LENGTH: 18
133 <212> TYPE: PRT
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136 <400> SEQUENCE: 11
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140 Gly Arg
144 <210> SEQ ID NO: 12
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146 <212> TYPE: PRT

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154   20   25   30
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158 <211> LENGTH: 500
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160 <213> ORGANISM: Macaca mulatta
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163 <221> NAME/KEY: CDS
164 <222> LOCATION: (95)..(325)
166 <400> SEQUENCE: 13
167 gacggctgct gttgctacag gagacccagg acagaggact gctgtctgca ctctctcttc 60
169 actctgccta acttgaggat ctgtcactcc agcc atg agg acc ttc gcc ctc ctc 115
170   Met Arg Thr Phe Ala Leu Leu
171   1   5
173 acc gcc atg ctt ctc ctg gtg gcc ctg cac gct cag gca gag gca cgt 163
174 Thr Ala Met Leu Leu Leu Val Ala Leu His Ala Gln Ala Glu Ala Arg
175   10   15   20
177 cag gca aga gct gat gaa gct gcc gcc cag cag cag cct gga aca gat 211
178 Gln Ala Arg Ala Asp Glu Ala Ala Ala Gln Gln Gln Pro Gly Thr Asp
179   25   30   35
181 gat cag gga atg gct cat tcc ttt aca tgg cct gaa aac gcc gct ctt 259
182 Asp Gln Gly Met Ala His Ser Phe Thr Trp Pro Glu Asn Ala Ala Leu
183 40   45   50   55
185 cca ctt tca gag tca gcg aaa ggc ttg agg tgc att tgc aca cga gga 307
186 Pro Leu Ser Glu Ser Ala Lys Gly Leu Arg Cys Ile Cys Thr Arg Gly
187   60   65   70
189 ttc tgc cgt ttg tta taa tgtcaccttg ggtcctgcgc ttttcgtggt 355
190 Phe Cys Arg Leu Leu
191   75
193 tgactccacc ggatctgctg ccgctgagct tccagaatca agaaaaatat gctcagaagt 415
195 tactttgaga gttaaaagaa attcttgcta ctgctgtacc ttctcctcag tttccttttc 475
197 tcatcccaaa taaatacctt atcgc 500
200 <210> SEQ ID NO: 14
201 <211> LENGTH: 76
202 <212> TYPE: PRT
203 <213> ORGANISM: Macaca mulatta
205 <400> SEQUENCE: 14
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209 His Ala Gln Ala Glu Ala Arg Gln Ala Arg Ala Asp Glu Ala Ala Ala
210   20   25   30
212 Gln Gln Gln Pro Gly Thr Asp Asp Gln Gly Met Ala His Ser Phe Thr
213   35   40   45
215 Trp Pro Glu Asn Ala Ala Leu Pro Leu Ser Glu Ser Ala Lys Gly Leu
216   50   55   60

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PATENT APPLICATION: US/10/009,317   TIME: 12:01:09

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219 65                  70                  75
222 <210> SEQ ID NO: 15
223 <211> LENGTH: 495
224 <212> TYPE: DNA
225 <213> ORGANISM: Macaca mulatta
227 <220> FEATURE:
228 <221> NAME/KEY: CDS
229 <222> LOCATION: (90)..(320)
231 <400> SEQUENCE: 15
232 gaccgctgct cttgctacag gagacccggg acagaggact gctgtctgcc ctctctcttc 60
234 actctgccta acttgaggat ctgccagcc atg agg acc ttc gcc ctc ctc acc 113
235                                 Met Arg Thr Phe Ala Leu Leu Thr
236                                  1               5
238 gcc atg ctt ctc ctg gtg gcc ctg cac gct cag gca gag gca cgt cag 161
239 Ala Met Leu Leu Leu Val Ala Leu His Ala Gln Ala Glu Ala Arg Gln
240      10                  15                  20
242 gca aga gct gat gaa gct gcc gcc cag cag cag cct gga gca gat gat 209
243 Ala Arg Ala Asp Glu Ala Ala Ala Gln Gln Gln Pro Gly Ala Asp Asp
244  25                  30                  35                  40
246 cag gga atg gct cat tcc ttt aca cgg cct gaa aac gcc gct ctt ccg 257
247 Gln Gly Met Ala His Ser Phe Thr Arg Pro Glu Asn Ala Ala Leu Pro
248                  45              50                  55
250 ctt tca gag tca gcg aga ggc ttg agg tgc ctt tgc aga cga gga gtt 305
251 Leu Ser Glu Ser Ala Arg Gly Leu Arg Cys Leu Cys Arg Arg Gly Val
252              60                  65                  70
254 tgc caa ctg tta taa aggcgtttgg ggtcctgcgc ttttcgtggt tgactctgcc 360
255 Cys Gln Leu Leu
256          75
258 ggatctgctg ccgctgagct tccagaatca agaaaaatac gctcagaagt tactttgaga 420
260 gttgaaagaa attcctgtta ctcctgtacc ttgtcctcaa tttccttttc tcatcccaaa 480
262 taaatacctt ctcgc                                                 495
265 <210> SEQ ID NO: 16
266 <211> LENGTH: 76
267 <212> TYPE: PRT
268 <213> ORGANISM: Macaca mulatta
270 <400> SEQUENCE: 16
271 Met Arg Thr Phe Ala Leu Leu Thr Ala Met Leu Leu Leu Val Ala Leu
272  1               5                  10                  15
274 His Ala Gln Ala Glu Ala Arg Gln Ala Arg Ala Asp Glu Ala Ala Ala
275                  20                  25                  30
277 Gln Gln Gln Pro Gly Ala Asp Asp Gln Gly Met Ala His Ser Phe Thr
278              35                  40                  45
280 Arg Pro Glu Asn Ala Ala Leu Pro Leu Ser Glu Ser Ala Arg Gly Leu
281          50                  55                  60
283 Arg Cys Leu Cys Arg Arg Gly Val Cys Gln Leu Leu
284  65                  70                  75
287 <210> SEQ ID NO: 17
288 <211> LENGTH: 27
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289 <212> TYPE: DNA
290 <213> ORGANISM: Macaca mulatta
292 <220> FEATURE:
293 <221> NAME/KEY: CDS
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298 Arg Cys Ile Cys Thr Arg Gly Phe Cys
299   1             5
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309   1             5
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313 <211> LENGTH: 27
314 <212> TYPE: DNA
315 <213> ORGANISM: Macaca mulatta
317 <220> FEATURE:
318 <221> NAME/KEY: CDS
319 <222> LOCATION: (1)..(27)
321 <400> SEQUENCE: 19
322 agg tgc ctt tgc aga cga gga gtt tgc                          27
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324   1             5
327 <210> SEQ ID NO: 20
328 <211> LENGTH: 9
329 <212> TYPE: PRT
330 <213> ORGANISM: Macaca mulatta
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334   1             5
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338 <211> LENGTH: 92
339 <212> TYPE: PRT
340 <213> ORGANISM: Macaca mulatta
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346 His Ala Gln Ala Glu Ala Arg Gln Ala Arg Ala Asp Glu Ala Ala Ala
347               20                  25                  30
349 Gln Gln Gln Pro Gly Thr Asp Asp Gln Gly Met Ala His Ser Phe Thr
350               35                  40                  45
352 Trp Pro Glu Asn Ala Ala Leu Pro Leu Ser Glu Ser Ala Lys Gly Leu
353       50                  55                  60
355 Arg Cys Ile Cys Thr Arg Gly Phe Cys Arg Leu Leu Cys His Leu Gly
356   65                  70                  75                  80
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VERIFICATION SUMMARY   DATE: 01/14/2002
PATENT APPLICATION: US/10/009,317   TIME: 12:01:10

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